Name

Date _____

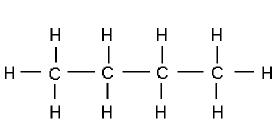
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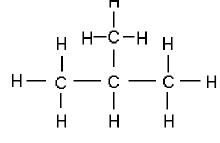
Formulas

1. Explain the difference between a molecular formula and an empirical formula.

2. Explain the difference between a molecular formala and an empirical formala.

- 2. Write the empirical formula for each of the following:
 - a. C₆H₁₂O₆ _____
 - b. O₂F₂ _____
 - c. P₄O₆ _____
 - d. C₂H₆O₂ _____
 - e. C₂H₄O₂ _____
 - f. C₇H₁₅COOH _____





butane

methylpropane

- 3. Write the molecular formula for butane.
- 4. Write the molecular formula for methylpropane.
- 5. Compound X has been found to contain twice as many hydrogen atoms as carbon atoms ond no other elements.
 - a. Write the empirical formula for compound X.
 - b. Of the molecular formulas in the box below, which ones could possibly represent compound X?
- 6. Compound Y has been found to contain elements in the following ratio: 3 carbon atoms: 6 hydrogen atoms: 1 oxygen atoms.
 - a. Write the empirical formula for compound Y. _____
 - b. Of the molecular formulas in the box below, which ones could possibly represent compound Y?

CH ₃		C_5H_{10}	$C_6H_{12}O_2$		
	$C_{12}H_{26}$	$C_{11}H_{22}$	C_2H_4		
	$C_{10}H_{20}O_3$	CH_4		C_4H_6	CH ₂